

On page 48, line 21, change " _____ " to -- 09/273,148 -- .

On page 51, line 9, change "ram" to -- ramp --.

On page 51, line 11, before "MW" insert -- 0 to 100 -- .

IN THE CLAIMS

Please amend claims 1 and 2, as follows:

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1. (Amended) An energy market system associated with an energy generation and [distribution] delivery system, the energy market system comprising:
- a market user interface, the market user interface exchanging market information with a plurality of market participants; and
 - an energy scheduling subsystem, the energy scheduling subsystem scheduling generation and delivery of energy among market participants in accordance with the market information and in accordance with information relating to the energy generation and [distribution] delivery system.
2. (Amended) The energy market system of claim 1, wherein the energy scheduling subsystem includes:
- a unit commitment function, the unit commitment function selecting energy generating units for operation in the energy generation and [distribution] delivery system;
 - a security analysis function, the security analysis function analyzing the energy generation and [distribution] delivery system under one or more contingency conditions and with the energy generation units selected for operation; and

Q³

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an optimal power flow function, the optimal power flow function determining a configuration of the energy generation and [distribution] delivery system so as to operate in a secure mode under none and each one of the contingency conditions.

Please add new claims 3-16 as follows:

-- 3. (New) The energy market system of claim 1, wherein the energy scheduling subsystem schedules generation and delivery of energy at least one of a day in advance and an hour in advance.

4. (New) The energy market system of claim 1, wherein the market user interface exchanges market information with a plurality of market participants over a data communications network.

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5. (New) The energy market system of claim 1, wherein the market information includes demand for energy delivery and availability of energy generation.

6. (New) The energy market system of claim 1, wherein the information relating to the energy generation and delivery system includes a model of the energy generation and delivery system.

7. (New) The energy market system of claim 2, wherein the unit commitment function selects energy generating units for operation in each hour of a day in accordance with a study period that includes a plurality of days.

8. (New) The energy market system of claim 2, wherein the energy scheduling subsystem includes an energy pricing function, the energy pricing function determining locational prices for the energy to be delivered.

9. (New) The energy market system of claim 2, wherein an input to the optimal power flow function includes a ramping constraint of a power generation unit.

10. (New) An energy market system associated with an energy generation and delivery system, the energy market system comprising:

a market interface, the market interface exchanging market information with a plurality of market participants; and

an energy transmission rights auction subsystem, the energy transmission rights auction subsystem providing for the exchange of energy transmission rights in accordance with the market information and in accordance with information relating to the energy generation and delivery system.

11. (New) The energy market system of claim 10, wherein the energy transmission rights auction subsystem includes:

a case setup function, the case setup function setting up a market case in accordance with the market information;

a feasibility test function, the feasibility test function testing the feasibility of the market case and determining auction results in accordance with information relating to the energy generation and delivery system; and

a post-processing function, the post-processing function providing the auction results to the market participants.

12. (New) The energy market system of claim 11, wherein the feasibility test function includes:

a security analysis function, the security analysis function analyzing the energy generation and delivery system under one or more contingency conditions and in accordance with the market case;

an optimal power flow function, the optimal power flow function determining a configuration of the energy generation and delivery system so as to operate in a secure mode under none and each one of the contingency conditions; and

an energy rights pricing function, the energy rights pricing function determining prices for the energy transmission rights to be exchanged in accordance with the auction results.

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13. (New) The energy market system of claim 10, wherein the market interface exchanges market information with a plurality of market participants over a data communications network.

14. (New) The energy market system of claim 10, wherein the information relating to the energy generation and delivery system includes a model of the energy generation and delivery system.

15. (New) The energy market system of claim 10, wherein the energy transmission rights include fixed transmission rights.

16. (New) The energy market system of claim 12, wherein the optimal power flow function includes a security-constrained optimal power flow function. -- .